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(ii) a rotor fixedly attached to said turbine shaft and having a plurality of blades bounded by a shroud and disposed adjacent said plurality of steam directing nozzles, said packing ring comprising a plurality of packing ring segments, each said packing ring segment being mounted in a groove circumferentially in said diaphragm for forming a seal with said turbine shaft;

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said packing ring comprising a plurality of packing ring segments, each said packing ring segment [including

a body portion for mounting within said circumferentially formed groove and having a longitudinal extent, a vertical extent, and a horizontal extent, and being particularly adapted for mounting in a portion of said diaphragm, said body portion having a brush mounting groove formed along said vertical extent and extending along said longitudinal extent; and

a plurality of brush segments mounted within said brush mounting groove of said packing ring segment, each said brush segment having a packet of bristles with said bristles having tip portions trimmed to terminate along a radius of curvature adapted to form a steam seal with said turbine shaft, and

each said bristle being disposed in a plane substantially parallel to the principal plane of said rotor and extending in the direction of rotation of said turbine shaft; and

each segment further] comprising:

an inner [arcuate] ring portion[,] having a plurality of brush segments mounted within a brush mounting groove formed in said inner ring, each said brush segment having a packet of bristles with said bristles having tip portions trimmed to terminate along a radius of curvature adapted to form a steam seal with said turbine shaft, each said bristle being disposed in a plane substantially parallel to the principal plane of said rotor and extending in the direction of rotation of said turbine shaft;

an outer ring portion disposed within said circumferential groove for both axial and radial movement of said segment therein and having a pair of shoulders extending axially in opposite directions for making radial contact respectively with a pair of spaced apart opposing shoulders on said casing and thereby limiting movement of said segment radially with respect to said shaft;

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a neck portion connected between said inner arcuate portion and said outer ring portion and extending between said casing shoulders, said neck portion having an axial thickness which is less than the distance between said opposing casing shoulders to thereby axially locate said seal ring segment against one of said casing shoulders and provide a contact pressure seal at the said side of said neck portion which is subject to lower turbine fluid pressure; and

a radial positioning means comprising a spring against said ring segments to forcibly cause said segments to move radially [inward towards] outward away from said shaft, whereas working fluid flowing into to the annular space between said casing and said ring segments will urge said segments radially [outward away from] inward towards said shaft, whereby at low speed and small turbine loads the spring forces will predominate, while at high flows and high working fluid pressure the pressure forces will predominate.

- ✓ Claim 14, line 1, change "10" to -13-.
- ✓ Cancel claim 20.
- ✓ Claim 22, line 2, change "form" to -from-.

REMARKS

Entry of the foregoing amendments, and reexamination and reconsideration of the subject application, pursuant to and consistent with 37 C.F.R. § 1.104 and § 1.112, and in light of the following remarks, are respectfully solicited.

Objections to Drawings

Despite the fact that various types of springs, including flat/leaf springs such as shown in the cited Synfelt and Sanders patents, are known to those of ordinary skill in this art, claims 6 and 20 have been cancelled in favor of the broader, independent claims which are independent of the configuration, geometry, or type of spring used.

The "incised channel" recitation is supported at least by the disclosure at page 31, lines 28-31, regarding Fig. 18. It is disclosed therein that the channel can be made by